

The Study of the Amination of Organic Halogen
Compounds in Liquid Ammonia, 2. The Reaction
Between Liquid Ammonia and Lower Alkyl Halides,
by N. S. Spasokukotskiy, G. S. Markova,
A. I. Shatenshtein, 29 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV,
No 1/2, 1945, pp 42-59.

Sci Mu Lib No 54/2913

Scientific - Chemistry

Natl Resh BT 443

Nov 1954 CTS

19,697

Camphene Rearrangement of the Second Type, by
I. K. Sivkov, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, No 1-2,
1945, pp 70-74.

Sci Tr Center
RT-1418

Scientific - Chemistry

18,880

Part II -

Determination of Active Hydrogen With Grignard's
Reagent in an Atmosphere of Carbon Dioxide, by
A. P. Terent'ev, K. D. Shcherbakova.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, 1945,
pp 86-89.

AEC Tr 1574

Scientific - Chemistry

May 53 CTS

2101

2101

61-18251

Plate, A. F. and Tarasov, G. A.
MECHANISM OF CONTACT CONVERSIONS OF HY-
DROCARBONS ON A VANADIUM CATALYST. IV.
DEHYDROGENATION OF SIX-MEMBERED RINGS.
[1961] 9p. 12 refs.
Order from OTS or SLA \$1.10 61-18251

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 120-130.

DESCRIPTORS: *Hydrocarbons, *Cyclohexanes,
Methyl radicals, Dehydrogenation, *Vanadium, Cata-
lysts, Catalysis.

Dehydrogenation of cyclohexane and of methylcyclohex-
ane was investigated on a vanadium catalyst within the
temperature interval of 440 to 500°. The principal re-
action consists in this case in the formation of aro-
matics and the corresponding cycloolefins. Simultane-
(Chemistry--Organic, TT, v. 6, no. 10) (over)

I. Plate, A. F.
II. Tarasov, G. A.
III. Title: Dehydrogenation ...

1241
Office of Technical Services

Specific Weight of Aqueous Solutions of Formic and
Acetic Acids, by A. A. Galgoleva, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, 1945,
pp 131-134.

ABC Tr 3756

Sci - Chem

Sep 59

96,731

Shilov, E. A.
CATALYTIC INFLAMMATION OF MIXTURES OF
CHLORINE WITH ETHYLENE AND OTHER COMBUS-
TIBLE GASES. [1961] 8p. 7 refs.
Order from OLS or SLA \$1.10

61-18248

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15
[no. 3] p. 135-141.

DESCRIPTORS: *Chlorines, *Ethylenes, *Gases,
*Oxides, Inflammable materials, Catalysis, Ignition,
Additives, Thermochemistry, Combustion.

Inflammation of mixtures of chlorine with ethylene was
studied in the presence of various volatile and non-
volatile additions. Oxides of mercury, silver and lead
pronouncedly reduce the inflammation temperature.
Mixtures of ethylene and chlorine explode even at room
temperature on mercurous and mercuric oxides, on
(Chemistry--Physical, TT, v. 6, no. 10) (over)

61-18248

I. Shilov, E. A.

187239

Office of Technical Services

JOURNAL OF GENERAL CHEMISTRY, 1945, VOL. 15,
NO. 3: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1962] 8p. 6 refs.

Order from OTS or SLA \$1.10

62-10854

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1945, v. 15, no. 3, p. 142-149, 165-188, 232-258.
##Complete translations of p. 165-168 and 173-176 are
available from SLA as RT-1444 and RT-1008.

DESCRIPTORS: *Chemistry, *Abstracts, Molecular
isomerism, Methyl ethers, Hydroxides, Naphthalenes,
Quinones, Catalysts, Catalysis, Chemical reactions,
Nitrogen compounds, Oxides, Ethyl ethers, Reaction
kinetics, Styrenes, Polymerization, Rubber, Oxidation,
Propionic acids, Bromides, Esters, Nicotinic acid.

Contents:

Isomerization of dimethyl ether of 1,4-dihydro- α -naph-
(Chemistry, IT, v. 9, no. 9)

(over)

62-10854

- I. Title: Action of N_2O_3 ...
- II. Title: Practical...
- III. Title: Some...

Office of Technical Services

Plate, A. F.
MECHANISM OF CONTACT CONVERSIONS OF HY-
DROCARBONS ON A VANADIUM CATALYST. V.
SIMULTANEOUS HYDROGENATION AND DEHYDRO-
GENATION OF CYCLOOLEFINS (CYCLOHEXENE
AND CYCLOPENTENE) (Mekhanizm Kontaktaykh
Prevrashcheniy Uglev. Vodorov na Vanadievom
Katalizatore). [1961? 10p. 3+ refs.
Order from OTS or SLA 51.10 61-18245

Trans. of Zhurnal Khimicheskoi Khimii (USSR) 1945, v. 15
(no. 3) p. 155-164.

DESCRIPTORS: *Hydrocarbons, *Cyclohexenes,
*Cyclopentenes, Hydrogenation, Dehydrogenation,
Vanadium catalysts, Monocyclic compounds.

Investigation of the behavior of cyclohexene in the
presence of vanadium trioxide on aluminum oxide as a
catalyst revealed the diversity and complexity of the
conversions occurring, which should be taken into ac-
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18246

- I. Title: Contact conversion
- I. Plate, A. F.
- II. Title: Simultaneous...

18181

Office of Technical Services

Zhur Obshch Khim XV, 724-8, 1945

Equilibrium in the Systems $\text{NH}_4\text{F}-\text{H}_2\text{O}$ and $\text{NH}_4\text{HF}_2-\text{H}_2\text{O}$.

V. S. Yatlov and E. M. Polyakova

(Wilson Dam 2482)

The Action of Nitrogen Oxides on Unsaturated Ethers.
Com. II. Action of N_2O_3 on Ethyl-allyl Ether,
by H. Ya. Maslov, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, No 3,
1945, pp 165-168.

Sci Tr ~~Sci~~ Center
RT-1444

Scientific - Chemistry

18,902

Polymerization of Styrene in a High Frequency Field,
by N. V. Shorygina, E. I. Petrova, 6 pp
UNCLASSIFIED

RUSSIAN, Per, Zhur Obshch Khim, Vol XV, No 3,
1945, pp 173-176.

Sci Tr Center
RT-1008

Scientific - Chemistry

15353

Investigation of the Alkaloids of Trachelanthus
Korolkovi. II, by G. P. Men'shikov, G. M. Borodina,
18 pp.

RUSSIAN, per, Zhur. Obshchei Khimii, Vol XV, No 3,
1945, pp 225-236.

Sci Tr Center RT-2502

USSR
Scientific - Chemistry

28,271

Nov 55
CTB/DEX

Nikitin, V. M.
EFFECT OF CADMIUM ON DEHYDRATION OF
ETHANOL OVER ALUMINA. [1961] 4p. 4 refs.
Order from OTS or SLA \$1.10
61-20126

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 273-276.

DESCRIPTORS: *Ethanol, Decomposition, *Cadmium
compounds, Nitrates, Chemical reactions, Dehy-
dration, *Aluminum compounds, Oxides, Dehydro-
genation, Catalysts.

Decomposition of ethanol over alumina with an ad-
mixture of cadmium nitrate was studied. Addition of 1
mole cadmium nitrate to 60 moles alumina causes con-
version of the latter from a dehydrating catalyst to a
dehydrogenating catalyst, and with a larger amount of
cadmium present the character of conversion of alco-
(Chemistry--Physical, TT, v. 7, no. 2) (over)

61-20126

I. Nikitin, V. M.

Office of Technical Services

JOURNAL OF GENERAL CHEMISTRY, 1945, VOL. 15,
NO. 4/5: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1962] 5p. 14 refs.
Order from OTS or SLA \$1.10

62-10855

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1945, v. 15, no. 4/5, p. 332-340 and 363-366.

DESCRIPTORS: *Chemistry, *Abstracts, Bromides,
Phthalic acids, Imides, Molecular structure, Synthesis
(Chemistry), Hydrogenation, Molecular isomerism,
Benzenes, Butyl radicals, Calcium, Ammonium
radicals.

Contents:

Bromophthalimide, its structure and application in
organic syntheses, by N. I. Putokhin

Hydrogenation of isomers of butylbenzene with calcium-
ammonium, by S. I. Khromov and Z. A. Rumyantseva
(Chemistry, TT, v. 9, no. 9)

62-10855

Office of Technical Services

Zhurn Obshchei Khim, Vol XV, # 4/5, 841-52 (1945)

"The kinetics and mechanism of the thermal decomposition of iso-butane @ low pressures"

By A.D. Stepankhovich

AEC Translation # 209

21 June, 1946.

Available @: Brookhaven

Polymerization of Arylvinyl Ethers, by ~~Dr.~~ P. Lossev,
O. Ya. Fedotova, Trostyanskaya, E. B., 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, No 4/5,
1945, pp 353-357.

SLA 59-15838

Sci
Dec 59
Vol 2, No 5

103,590

Nametkin, S. S. and Abakumovskaya, L. N.
HYDROPOLYMERIZATION OF 3-METHYL-1-BUTENE BY 100 PER CENT SULFURIC ACID. [1961]
4p. 5 refs.

Order from OTS or SLA \$1.10

61-20129

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 358-361.

DESCRIPTORS: *Sulfuric acid, *Butenes, Polymers,
*Polymerization, *Hydrogenation, Hydrocarbons,
Ethylenes, Methyl radicals.

Hydropolymerization of 3-methyl-1-butene under the
action of 100% sulfuric acid was studied under different
conditions. Formation in this reaction of hydrogen-
ated polymers from dimers to hexamers, inclusive,
was shown. When 100% sulfuric acid is used, the hy-
dropolymerization of 3-methyl-1-butene forms more
(Chemistry--Organic, TT, v. 7, no. 5) (over)

61-20129

I. Nametkin, S. S.
II. Abakumovskaya, L. N.

Office of Technical Services

Effect of Pinacoline on Magnesium Tertbutyl Chloride
Solution, by V. M. Tolstopiatov, I. V. Voroshilova,
18 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XV, No 6,
1945, pp 565-573.

Sci Tr Center
RT-3901

39149

Sci - Chemistry
Sep 56 CTS/dex

Zhdanov, A. K.
INCREASE OF ENTROPY IN THE FORMATION OF
AZEOTROPIC MIXTURES, II. [1961] 5p. 7 refs.
Order from OTS or SLA \$1.10 61-20143

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 587-590.

DESCRIPTORS: *Entropy, *Mixtures, Boiling, Alcohols,
Heat of formation.

On the basis of data for thermal expansion, latent heats
of evaporation and heat capacity under constant pres-
sure formulas were derived for the determination of
the change of entropy accompanying formation of each
of the following azeotropic mixtures: (1) benzene-iso-
butyl alcohol; (2) carbon disulfide-acetone; (3) carbon
disulfide-isopropyl alcohol; (4) carbon disulfide-ethyl
acetate. The numerical value of the change of entropy
(Chemistry--Organic, TT, v. 7, no. 8) (over)

61-20143

I. Zhdanov, A. K.

201427

Office of Technical Services

Zhur Ek Khim., Vol 15 (1945)
pp 603-7

Polarographic study of the stability of
the complexes formed by iron &
Tartaric acid, by V. F. Tarafork

Done by AEC - List dated 2 of 50

Catalytic Hydrogenation. I. Kinetic Equation of
Hydrogenation and Dehydrogenation Over Nickel
Catalyst, by A. A. Balandin, 25 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XV, No 7/8,
1945, pp 608-618.

Sci Trans Center
RT-2588

Scientific - Chemistry
CTS 75/Dec 55

29,219

Tsukervanik, I. P.
CONDENSATION OF ALCOHOLS WITH AROMATIC
COMPOUNDS IN THE PRESENCE OF ALUMINUM
CHLORIDE. XI. MECHANISM OF ALKYLATION OF
AROMATIC HYDROCARBONS WITH ALCOHOLS.
[1961] 6p. 7 refs.
Order from OTS or SLA \$1.10

61-20141

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 635-638.

DESCRIPTORS: *Alcohols, *Condensation reactions,
Aluminum compounds, *Chlorides, *Alkyl radicals,
*Hydrocarbons.

Decomposition of products of interaction of alcohols
with aluminum chloride was investigated at tempera-
tures above 100°. Contrary to the data of Norris and
Sturgis (J. Am. Chem. Soc. 61: 1413, 1939), high
(Chemistry--Organic, TIT, v. 7, no. 9) (over)

61-20141

I. Tsukervanik, I. P.
II. Title: Mechanism. . .

Office of Technical Services

Pigulevskii, G. V. and Ryskal'chuk, A. T.
INVESTIGATION OF TURPENTINE FROM PINUS
SYLVESTRIS BY THE RAMAN SPECTRA METHOD.
[1961] 6p. 15 refs.
Order from OTS or SLA \$1.10

62-10864

[Condensed] trans. of Zhurnal Obshchei Khimii (USSR)
1945, v. 15, no. 7/8, p. 678-683.

DESCRIPTORS: *Turpentine, *Raman spectroscopy,
Fractionation, Spectrographic analysis, Pine.

(Chemistry--Organic, TT, v. 7, no. 11)

62-10864

I. Pigulevskii, G. V.
II. Ryskal'chuk, A. T.

Office of Technical Services

Petrov, A. A.

ORDER OF ADDITION OF HYDROGEN HALIDES
TO ORGANIC OXIDES IN AQUEOUS MEDIUM

[1961] 3p. 12 refs.

Order from OTS or SLA \$1.10

62-10865

[Condensed] trans. of Zhurnal Obshchei Khimii
(USSR) 1945, v. 15, no. 7/8, p. 690-698.

DESCRIPTORS: *Organic compounds, *Oxides,
*Hydrogen compounds, *Halides, Addition reactions,
Butenes, Propenes, Alcohols, Chlorides, Hypo-
chlorous acid, Acids, Water, Ethers.

(Chemistry--Physical, TT, v. 7, no. 11)

62-10865

I. Petrov, /

Office of Technical Services

Tsukervanik, I. P.

ALKYLATION OF AROMATIC COMPOUNDS IN THE
PRESENCE OF PHOSPHORIC ACID. I. CONDENSE-
TION OF ALCOHOLS WITH AROMATIC HYDRO-
CARBONS AND WITH HALOGEN DERIVATIVES.
[1961] 6p. 14 refs.

Order from OTS or SLA \$1.10

61-20142

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 699-703.

DESCRIPTORS: *Condensation reactions, *Alcohols,
*Hydrocarbons, *Halogens, Phosphoric acids, Alkyl
radicals, Chemical reactions, Reagents.

It was established that phosphoric acid can be used for
alkylation of aromatic hydrocarbons and aromatic
halogen derivatives with alcohols. Under optimal re-
action conditions yields of up to 80-90 per cent theor.
(Chemistry--Physical, TT, v. 7, no. 8) (over)

61-20142

I. Tsukervanik, I. P.

II. Title: Condensation. . .

201426

Office of Technical Services

Yatlov, V. S. and Polyakova, E. M.
EQUILIBRIUM IN THE SYSTEMS $\text{NH}_4\text{F}-\text{H}_2\text{O}$ AND
 $\text{NH}_4\text{HF}_2-\text{H}_2\text{O}$. [1963] [9]p. 5 refs.
Order from OTS or SLA \$1.10

63-16069

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1945,
v. 15, p. 724-728.

DESCRIPTORS: *Ammonium compounds, *Fluorides,
*Water, Phase studies, Thermodynamics, Physical
properties.

The equilibrium between the liquid and the solid phase
in the systems $\text{NH}_4\text{F}-\text{H}_2\text{O}$ and $\text{NH}_4\text{HF}_2-\text{H}_2\text{O}$ was
studied. It has been found that NH_4F forms at -16.8°
a hydrate having the composition $\text{NH}_4\text{F} \cdot \text{H}_2\text{O}$. In the
system $\text{NH}_4\text{HF}_2-\text{H}_2\text{O}$ the existence of only two solid
phases has been observed of ice and of the anhydrous
(Chemistry--Physical, TT, v. 10, no. 7) (over)

63-16069

I. Yatlov, V. S.
II. Polyakova, E. M.

Office of Technical Services

Nikolaeva, A. F., Tatevskii, V. M. and Frost, A. V.
CATALYTIC [ACTION] OF [ACTIVE] ALUMINOSILI-
CATES. IV. CONVERSION OF CYCLOHEXENE
OVER ACTIVATED CLAY. [1961] 4p. 7 refs.
Order from OTS or SLA \$1.10 61-20146

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 796-798.

DESCRIPTORS: Aluminum compounds, Silicates, Cata-
lysts, *Cyclohexenes, *Clays, Chemical reactions,
Hydrocarbons, Catalysis.

It was established that the action of aluminosilicates
on cyclohexene differs in its mechanism from the
action of metals, which bring about an irreversible
catalytic conversion, as described by N. D. Zelinskii.
The absence of benzene in the light fractions of the
(Chemistry--Organic, TT, v. 7, no. 2) (over)

61-20146

- I. Nikolaeva, A. F.
- II. Tatevskii, V. M.
- III. Frost, A. V.
- IV. Title: Conversion ...

Office of Technical Services

Petrov, A. D., Krutov, K. M., and Khrenov, I. M.
SYNTHESIS AND PROPERTIES OF ETHYLPROPYL-
CYCLOHEXYLMETHANE AND ISOPROPYLHEXYL-
CYCLOHEXYLMETHANE. [1961] 3p. 7 refs.
Order from OTS or SLA \$1.10

61-20147

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 799-801.

DESCRIPTORS: Synthesis, *Methanes, Antiknock,
Octanes, Petroleum, Hydrogenation, Ethylenes,
Cyclohexanes, Molecular structure, Alcohols, *Fuels,
*Aviation fuels, Ethyl radicals, Propyl radicals,
Hexyl radicals.

Ethylpropylcyclohexylmethane and isopropylhexyl-
cyclohexylmethane, not previously reported in the
literature, were synthesized. The pour points of these
hydrocarbons and their antiknock properties expressed
in cetene numbers were determined. (Author)
(Materials--Fuels, TT, v. 7, no. 1)

61-20147

I. Petrov, A. D.
II. Krutov, K. M.
III. Khrenov, I. M.

Office of Technical Services

Tambovtseva, V. and Tsukervanik, I.
ALKYLATION OF AROMATIC COMPOUNDS IN THE
PRESENCE OF PHOSPHORIC ACID. II. ALKYLATION
OF PHENOL AND ANISOLE BY ALCOHOLS. [1961]
6p. 3 refs.

Order from OTS or SLA \$1.10

61-20148

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 820-824.

DESCRIPTORS: *Alcohols, *Condensation reactions,
*Hydrocarbons, *Halogens.

Phenol and anisole are alkylated by alcohols in the
presence of phosphoric acid, forming alkylated de-
rivatives in yields of about 80 per cent, in some cases
up to 95 per cent theor. The alkyl phenols or alkyl
anisoles formed are predominantly p-isomers. In
some cases o-isomers are formed in small amounts.
(Chemistry--Organic, TT, v. 7, no. 9) (over)

61-20148

I. Tambovtseva, V.
II. Tsukervanik, I.
III. Title: Alkylation...

Office of Technical Services

Zhdanov, A. K.
HEAT CAPACITIES OF SOME PURE LIQUIDS AND
AZEOTROPIC MIXTURES. [1961] [7]p. 3 refs.
Order from OTS or SLA \$1.10 61-20149

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 895-901.

DESCRIPTORS: *Alcohols, *Acetates, *Ethyl
radicals, *Carbon compounds, *Sulfides, Liquids,
Mixtures, Thermodynamics, Tables.

Heat capacities under constant pressure were deter-
mined of isopropyl alcohol, isoamyl alcohol, ethyl
acetate, carbon disulfide and the following azeotropic
mixtures: (1) benzene-isopropyl alcohol, (2) benzene-
isobutyl alcohol, (3) carbon disulfide-acetone, (4)
carbon disulfide-methyl ethyl ketone, (5) carbon
disulfide-isopropyl alcohol, (6) carbon disulfide-
(Physics--Thermodynamics, TT, v. 7, no. 8) (over)

61-20149

1. Title: Azeotropes
1. Zhdanov, A. K.

201428

Office of Technical Services

Physicochemical Investigation of the Systems Indium
Chloride-Chlorides of Other Metals, by A. P.
Vovkogen, Ya. A. Fyalkov, 10 pp.

RUSSIAN, per, Zhur Obsh Khim, Vol XV, No 11-12,
1945, pp 903-~~909~~ 9097038
910

AEC Tr-4370

Sci - Chem
Apr 62

189,960

Korshak, V. V. and Zamyatina, V. A.
POLYVINYL DERIVATIVES. II. POLYVINYL
BUTYL ETHER. [1961] 4p. 11 refs.
Order from OTS or SLA \$1.10 61-20112

Condensed trans. of Zhurnal Obshchei Khimii
(USSR) 1945, v. 15, p. 947-951.

DESCRIPTORS: *Vinyl radicals, *Polymers, *Butyl
radicals, *Ethers, Polymerization, Catalysts.

The polymerization was studied of normal butyl
vinyl ether in the presence or absence of sulfur
dioxide, as influenced by the following catalysts:
iodine, stannous chloride, stannic chloride, alumi-
num chloride, ferric chloride and boron fluoride.
The reaction temperature was varied from -55 to
60°. The polymers obtained were viscous, very
tacky liquids, insoluble in alcohol or water, but
(Chemistry--Organic, TT, v. 7, no. 8) (over)

61-20112

I. Korshak, V. V.
II. Zamyatina, V. A.
III. Title: Polyvinyl Butyl. . .

201421

Office of Technical Services

Petrov, A. A. and Sopov, N. P.
RESEARCH OF CONJUGATED SYSTEMS. XXVI.
SYNTHESIS AND PROPERTIES OF 1-CHLORO-1,
3-BUTADIENE. [1961] 8p. 21 refs.
Order from OTS or SLA \$1.10 61-20150

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 981-987.

DESCRIPTORS: *Chloroprenes, Synthesis, *Alkoxy
radicals, Dienes, *Bromine, *Halogens, *Anhydrides,
*Sodium compounds, *Hydroxides, *Potassium com-
pounds, Chemical reactions, Butadienes.

1-Chloro-1, 3-butadiene was prepared in pure state
for the first time by the action of caustic potash on
1, 4-dichloro-2-butene. The reaction of 1-chloro-1,
3-butadiene to bromine, alkyl hypodrites and maleic
anhydride and its tendency toward spontaneous and
(Chemistry--Organic, TT, v. 7, no. 8) (over)

61-20150

I. Petrov, A. A.
II. Sopov, N. P.
III. Title: Synthesis ...

201429

Office of Technical Services

Esafov, V. I.

HALOGENATION OF UNSATURATED HYDROCARBONS, IV. [1961] 7p. 12 refs.

Order from OTS or SLA \$1.10

61-20152

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15, p. 1001-1006.

DESCRIPTORS: *Halogenation, *Hydrocarbons, Gasoline, Chemical reactions, Chemical bonds, Ethylenes, Processing.

The McIlhiney method for determination of iodine numbers is recommended for detection of groups with quaternary carbon atoms at the double bonds of olefinic and diene hydrocarbons. The content of unsaturated hydrocarbons with quaternary carbon atoms at the double bonds in gasolines produced by liquid phase cracking increases with rise of the boiling range of the gasoline fraction. An interpretation is offered of the (Chemistry--Organic, TT, v. 7, no. 7) (over)

61-20152

I. Esafov, V. I.

Office of Technical Services

Investigation of the Alkaloids of Girgensohnia
appositiflora (Pall.) Fenzl. (Fam. Chenopodiaceae),
by N. K. Yurashevskiy, N. L. Stepanova.
RUSSIAN, per, Zh Obshch Khim, Vol 16, No 1, 1946,
pp 141-144.
ATS RJ-5066

Sci-Chem
July 69

385,477

Biphenylene Hydrazones of Aldehydes, Ketones, and
Quinones, by E. S. Khotinsky, M. Kh. Gluzman.
UNCLASSIFIED

RUSSIAN, per, Zhur Obshch Khim, Vol XVI, No 3, 1946.

Navy Tr 1899/TG-230-T12

Sci - Chemistry
Nov 58

OTS PB 141454T

75,974

Zhur Obshch Khim XVI, 27-32 (1946)

Equilibrium in the System $\text{AlF}_3\text{-H}_2\text{O}$.

V. S. Yatlov and E. N. Pinayevskaya

(Wilson Dam 2481)

Ivanov, K. I., Savinova, V. K., and Mikhailova, E. G.
PEROXIDE COMPOUNDS OF ISOPROPYL ETHER.
I. PHOTOOXIDATION OF ISOPROPYL ETHER AND
THE CHARACTER OF PEROXIDES FORMED. [1961]
5p. 18 refs.
Order from OTS or SLA \$1. 10

61-20177

Trans. of Zhurnal Obshchei Khimii (USSR) 1946, v. 16,
p. 65-70.

DESCRIPTORS: *Propyl ethers, *Peroxides, Hydrogen
compounds, Oxidation, Boiling, Oxides, Ultraviolet
radiation, Light, Photochemistry, Photochemical re-
actions.

The action of ultraviolet light accelerates formation of
peroxides in autoxidation of isopropyl ether. Autoxi-
dation of isopropyl ether forms three types of per-
oxides: hydrogen peroxide, a very small amount of a
(Chemistry--Physical, TT, v. 7, no. 2) (over)

61-20177

- I. Ivanov, K. I.
- II. Savinova, V. K.
- III. Mikhailova, E. G.
- IV. Title: Photooxidation ...

Office of Technical Services

Vvedenskii, A. A., Dobronravov, R. K., and
Frost, A. V.
KINETICS AND MECHANISM OF CATALYTIC
HYDROGENATION OF HYDROCARBONS, II [1961]
6p. 7 refs.
Order from OTS or SLA \$1.10

61-20161

Trans. of Zhurnal Obshchei Khimii (USSR) 1946,
v. 16, p. 71-76.

DESCRIPTORS: *Hydrocarbons, Hydrogenation,
Catalysis, *Benzenes, *Cyclohexanes, *Reaction
kinetics.

In hydrogenation of benzene over palladium black at
240° and atmospheric pressure the rate of hydro-
genation is independent of the partial pressure of
benzene within the limits of 0.1-0.45 atm. Hydrogen-
ation of benzene under the above conditions is re-
(Chemistry--Organic, TT, v. 7, no. 8) (over)

61-20161

I. Vvedenskii, A. A.
II. Dobronravov, R. K.
III. Frost, A. V.

201430

Office of Technical Services

Polymerization of Simple Methyl Vinyl
Ether, by I. P. Losev, E. B. Trostyanskaya,
14pp.

RUSSIAN, per, Zhurnal Obshchei Khimii,
Vol 17, 1947, No 1, pp 122-129.
CFSTI TT-64-18576

323,191

Sci - Chemistry
Apr 67

Zhur Obshch Khim XVI, 171-8, (1946)

Mutual Solubility in the System $(\text{NH}_4)_2\text{HPO}_4-(\text{NH}_4)_2\text{SO}_4-\text{H}_2\text{O}$

K. S. Chernova and E. V. Korzh (Lab of Inorganic Chem,
Voronezh State Pedagogical Inst)

(Wilson Dam 2478

Corin, Yu. A. RESEARCH ON CATALYTIC CONVERSION OF ALCOHOLS TO HYDROCARBONS OF THE 1,3-BUTADIENE SERIES. II. FORMATION OF 1,3-BUTADIENE FROM ETHYL ALCOHOL. [1964] 10p. 20 refs. Order from OTS or SLA \$1.10 Trans. of Zhurnal Obshchei Khimii (USSR) 1946, v. 16, p. 283-294. DESCRIPTORS: *Hydrocarbons, *butadienes, synthesis, *Emanol, *Alcohols, Chemical reactions, Catalysts. Formation of 1,3-butadiene by conversion of either ethyl or propyl alcohol in mixture with acetaldehyde, alcohols or crotonaldehyde in the presence of several catalysts used for the manufacture of butadiene from ethanol by the S. V. Lebedev method established that these (Chemistry--Organic, TT, v. 6, no. 11) (over)	61-20178 I. Corin, Yu. A. II. Title: Formation... 5540 Office of Technical Services
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Investigation of Hydrolytic Equilibria in Solutions
of Sodium Hexafluorosilicate at 11°, by G. Y.
Ruiss, 17 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XVI, 1946,
pp 331-340.

Sci Mus Lib 53/1553

Scientific - Chemistry
CTS/DEX

6260

To the Problem of the Transformations of Diazo
Compounds. 1. The Reactions of p-Nitro-
Diacetennene and the Theory of the Structure of
Riem Diazo compounds, by B. A. Porai-Koshits,
I. V. Grachev. UNCL

RUSSIAN, per, Zhur Obshch Khim, 1946,
pp 571-582. Vol XVI, No 4/5,

DSIR Lending Library Unit M. 177

Sci - Chem
Apr 59

85,881

Effect of Foreign Vapors on the Coagulation of
Aerosols, by I. S. Artemov.

RUSSIAN, per, Zhur Obshch Khim, Vol XX, No 6,
1946, pp 553-560.

AEC Tr
DRB T.4.R.

Scientific - Chemistry
CIA 495730

14,544

Methylpropylacetylenylcarbinol and Methylprop-
yvinylcarbinol and Hydrocarbons Obtainable From
Them, by I. A. Shikheyev, 4 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol XVI, 1946,
pp 657-664.

SLA 61-20118

Sci

Mar 62

Vol VII, No 3

188,109

Zhur Obshch Khim Vol 21(?), #6, pp 745-748 (1947)
17.

Solubility of Gases in Liquids Under Pressure
M. G. Honikberg(?)
(3)

Sci Info Serv
DEB, Canada
CIA # 581296

Synthesis of New Anesthetics. Con II. Esters of
 α -bromo- α -furan carboxylic Acid and Amino
Alcohols, by Midzhoyan, A.L., 6 pp.
RUSSIAN, no per, Zhur Obshch Khim, Vol XVI, No 4/5,
1946, pp 767-770.

Scientific - Chemistry

Sci Tr Center RF 3597

36,145

Jun 56 CTS

Simultaneous Conversion of Cyclopentene into
Cyclopentane and Cyclopentadiene in the Presence of
Catalysts, by A. E. Plate, M. I. Baturay (1946)

U. S. S. R., Zhur Obshchei Khim., Vol XVI, No 6, 1946
p. 205-210,

Sci Lib 53/2793

53-61-29122

14, 4, 2, 7

2 - Chemistry

C 3/28A

Levina, R. Ya. and Egorova, S. A.
SYNTHESIS OF BRANCHED-CHAIN OLEFINS AND
PARAFFINS. III. INTERACTION OF 2,4-DI-
METHYL-2-PENTENYL BROMIDE WITH ALKYL-
MAGNESIUM HALIDES. [1961] 4p. 9 refs.
Order from OTS or SLA \$1.10 61-20121

Trans. of Zhurnal Obshchei Khimii (USSR) 1946,
v. 16, p. 821-824.

DESCRIPTORS: *Hydrocarbons, *Ethylenes,
Octenes, Octanes, Heptanes, *Methyl radicals,
Synthesis, *Bromides, *Magnesium compounds,
Halides, *Alkyl radical, Organic compounds
Chemical reactions. *Methanes.

Interaction of an unsaturated tertiary bromide, namely
2,4-dimethyl-2-pentenyl bromide, a homolog of allyl
bromide, with organomagnesium compounds is a
convenient method of synthesis of a branched-chain
(Chemistry--Organic, TT, v. 7, no. 3) (over)

61-20121

I. Levina, R. Ya.
II. Egorova, S. A.
III. Title: Interaction.

Office of Technical Services

Turova-Polynsk, M. B., Egorova, N. P., and
Petrova, E. N.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS UNDER THE ACTION OF ALUMINUM
CHLORIDE. XII. OPTIMAL CONDITIONS OF ISOM-
ERIZATION OF ALKYL CYCLOPENTANES. [1961]
55, 5 refs.

Order from GTS or SLA \$1.10

61-20122

Trans. of Zhurnal Obshchei Khimii (USSR) 1961, v. 31,
p. 122-123.

DESCRIPTORS: *Hydrocarbons, *Cyclopentanes, Pen-
tanes, *Isomerism, Aluminum compounds,
Chlorides, Chemical reactions.

It was established that cyclopentane homologs are
isomerized by contact with aluminum chloride to cyclo-
pentane derivatives without any external supply of heat.
(Chemistry-Organic, TT, v. 6, no. 11) (over)

61-20122

I. Turova-Polynsk, M. B.
II. Egorova, N. P.
III. Petrova, E. N.
IV. Title: Optimal...

662

Office of Technical Services

Turova-Polyak, M. B. and Petrova, E. N.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS UNDER THE ACTION OF ALUMINUM
CHLORIDE. VII. ISOMERIZATION OF ETHYL-
CYCLOHEPTANE. [1961] pp. 17 refs.
from GTS or SLA \$1.10

61-20123

Zhurnal Obshchei Khimii (USSR) 1940, v. 16
p. 829-834.

DESCRIPTORS: *Hydrocarbons. *Cycloheptanes, Ethyl
Radicals, Heptanes. *Molecular Isomerism, Synthesis,
Dehydrogenation, Bromination, Aluminum compounds,
Chlorides, Chemical reactions.

Abstract of aluminum chloride on ethylcycloheptane with-
out catalyst, giving about isomerization of this
hydrocarbon to cyclohexane derivative. The extent
of isomerization is accompanied by evolution of heat.
(Chemistry-Organic, 17, v. 6, no. 11) (over)

61-20123

I. Turova-Polyak, M. B.
II. Petrova, E. N.
III. Title: Isomerization...

Office of Technical Services

The Synthesis of Organo-Bismuth Compounds of the
II Type by the Method of Double Diazonium Salts,
T. K. Kozminskaya, M. M. Nadj, K. A. Kocheshkov,
pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XVI, No 6,
1946, pp 891-896.

NIH
Chemistry
Scientific - ~~diagnostic~~
mg/ox

5516

Oksentsev, R. D. and Usov, Yu. N.
DEHYDROCYCLIZATION OF 2,2,4-TRIMETHYL-
PENTANE OVER A CHROMIUM CATALYST [1961]
Sp. 13 refs.

Order from OTS or SLA \$1.10

61-20124

Trans. of Zhurnal Obshchei Khimii (USSR) 1946, v. 16,
p. 933-936.

DESCRIPTORS: *Pentanes, *Methyl radicals, Dehy-
drocyclization, *Chromium catalysts, Catalysts, Ca-
talysis, *Hydrocarbons.

Dehydrocyclization of 2,2,4-trimethylpentane to p-
xylene over a chromium catalyst supported on alumina
was established and a mechanism of this conversion
suggested, possibly involving isomerization of 2,4,4-
trimethylpentane to 2,5-dimethylhexane at high tem-
perature at a substantial velocity. (Author)
(Chemistry--Organic, TT, v. 6, no. 11)

61-20124

I. Oksentsev, R. D.
II. Usov, Yu. N.

Office of Technical Services

Shostakovskii, M. F. and Gershtein, N. A.
CONVERSIONS OF VINYL ETHERS. I. SYNTHESIS
OF ACETALS FROM VINYL ETHERS. [1961] 11p.
35 refs.

Order from OTS or SLA \$1.60

61-20125

Trans. of Zhurnal Obshchei Khimii (USSR) 1946,
v. 16, p. 937-950.

DESCRIPTORS: *Acetals, Synthesis, *Ethers, Vinyl
radicals, Chemical reactions, Catalysts.

A very simple catalytic method of preparation of
acetals from alcohols and vinyl ethers was developed,
giving good yields. In the presence of mineral acids
this reaction involves intermediate formation of an
oxonium complex. In the course of the synthesis of
acetals some of their conversions were determined,
particularly isomerization and decomposition, the
study of which is being continued. (Author)

61-20125

I. Shostakovskii, M. F.
II. Gershtein, N. A.
III. Title: Synthesis...

TT-64-20464

5064

(Chemistry--Organic, TT,
v. 6, no. 11)
Office of Technical Services

Peroxide Compounds of Isopropyl Ether. Part II.
The Heavy Peroxide. Part III. The Light Peroxide
of Isopropyl Ether, by K. I. Ivanov, 26 pp.

RUSSIAN, per, Zhur. Obshchei Khim., Vol XVI, 1946,
pp 1003-1019.

SLA Tr R-1176

Sci

Jun 58

65, 911

Spryskov, A. A.
EEN STUDIE OVER DE SULFONERINGSREACTIE.
IV. METHODE VOOR DE SULFONERING VAN
NAFTALEEN (A Study of the Sulfonation Reaction.
IV. Method for the Sulfonation of Naphthalene) tr. by
G. J. M. Fritschy. 8p. 14 refs. MTWL: 115.
(text in Dutch).
Order from OTS or ETC \$1.55 61-17740

Trans. of Zhurnal Obshchei Khimii (USSR) 1946,
v. 16, p. 1060-1063.

DESCRIPTORS: *Naphthalenes, *Sulfonic acids,
Sulfuric acid, Vapors.

61-17740

- I. Spryskov, A. A.
- II. MTWL-115
- III. Stichting Moelijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Relation Between the Structure and Bacteriostatic
Activity of Sulfanilamide Compounds, by Z. V.
Pushkareva, Z. Yu. Kokoshko, 16 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XVI, No 8,
1946, pp 1269-1278.

Sci Tr Center RT 3596

Scientific - Chemistry

36, 141

Jun 56 CTS

Investigation of the Alkaloids in Trachelanthus
Korolkovi. III. The Structure of Trachelantha-
midine -- the Amino Alcohol Formed in the Hydro-
lysis of Trachelanthamine, by G. P. Men'shikov,
20 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XVI, No 8,
1946, pp 1311-1316.

Sci Tr Center RT 3116

Scientific - Chemistry

31,047

Feb 56

Polarigraphic Study of the Potentials of Half-Waves
of Displaced Quinones, Phenones, and Fuchsones, by
A. G. Stromberg, L. M. Reinus, 16 pp. UNCLASSIFIED

RUSSIAN, no per, Zhur Obshch Khim, No 9, 1946.

G-2, GSUSA G-2625

USSR

Scientific - Chemistry

14,837

Jun 54 CTS

Chlorine and Hydrogen Explosion Temperatures
and Limits in Hydrogen Chloride, by T. I.
Kmin, V. I. Serdyukov, 12 pp.

RUSSIAN, per, Zhur Obshchey Khim, Vol XVI,
No 9, 1946, pp 1421-1430. 9687409

K-H-3735

FTD-TP-62-1415

CTD 62-1415

Sci - Chem
Jan 63

219979

Zhur Obshch Khim Val 16, # 9, pp 1481-4 (1946)

"Diadic Tautomerism [Synthesis of Organic Compd.
of Phosphorus + Arsenic]" G. V. Chelintsev
V. K. Kuskov

proj 10820

SE 28 9/11/12

Boron Fluoride as a Catalyst in Organic Chemistry,
IV. Condensation of Phenol With Butene-2,
UNCLASSIFIED

RUSSIAN, Zhur Obsh Khim, 1946, Vol 16, No 9,
pp 1495-1504.

SLA 61-18-7
Sci Mus Lib No 52/2735

DSIC LCU 171.2072

Scientific - Chemistry

25 October 1952

Investigation of Various Types of Peroxides as
Initiators of Emulsive Polymerization, by T. I.
Yurzenko, G. N. Gromova, V. B. Khaytser, 34 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XVI, No 9,
1946, pp 1505-1520.

SLA 59-15923

Sci

Dec 59

Vol 2, No 5

103,784

Savodov, V. P.
ON OXYHALIDES OF LEAD. [1963] Sp. 1 ref.
Order from OTS or SLA \$1.10 68-18339

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1966,
v. 16, p. 1361-1366.

DESCRIPTORS: *Lead compounds, *Oxyhalides,
Oxychlorides, Oxybromides, Iodides, Mixtures,
Chemical bonds, Crystal structure.

The data of various investigators, where numerous lead oxyhalides are considered as separated chemical compounds, evoked doubts as to the correctness of conclusions of some of the authors. The oxyhalides of lead of different composition which were obtained in the present study strengthened these doubts. Data concerning the exchange in the systems $PbBr_2 - NH_4OH$ and $2 PbO \cdot H_2O - KBr$ converted these doubts into a certainty. (Chemistry--Inorganic, TT, v. 10, no. 9) (over)

68-18339

I. Savodov, V. P.

Office of Technical Services

Maalianakil, G. N. and Berlin, T. S.
CONVERSIONS OF HYDROCARBONS ON ALUMINA-
SILICA CATALYSTS. I. CONVERSION OF CYCLO-
HEXANE. [1963] [15p] 18refs
Order from OTS, SLA or ETC \$1.60 TT-63-20804

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1946,
v. 16, p. 1643-1653.

DESCRIPTORS: *Hydroforming (Chemical), *Benzenes,
Benzene derivatives, Synthesis (Chemistry),
*Cyclohexanes, Dehydrogenation, *Alumina-silica
catalysts, *Fuels, Production.

(Chemistry--Organic, TT, v. 11, no. 3)

TT-63-20804

I. Maalianakil, G. N.
II. Berlin, T. S.
III. Title: Conversion...

Office of Technical Services

Domnin, N. A.

INVESTIGATIONS IN THE FIELD OF UNSATURATED
CYCLIC HYDROCARBONS AND THEIR HALOGEN
DERIVATIVES. VII. CONVERSION OF HALOGEN
DERIVATIVES OF CYCLOHEXANE INTO AROMATIC
DERIVATIVES. [1963] [13]p. 4 refs.
Order from OTS or SLA \$1.60

63-14826

Trans. of Zhurnal Obshchei Khimii (USSR) 1946,
v. 16, no. 10, p. 1729-1736.

DESCRIPTORS: *Cyclohexane derivatives, Halides,
*Bromides, Cyclohexanes, *Benzenes, *Cyclohexenes,
*Cyclohexadienes, Synthesis (Chemistry), Bromine,
Quinolines, Alcohols, Salts.

It is shown that (1) three products are formed in the
process of combining molecular bromine with
1,2-dibromocyclohexene-i, namely: 1,1,2,2-tetra-
(Chemistry--Organic, TT, v. 10, no. 7) (over)

63-14826

I. Domnin, N. A.
II. Title: Conversion ...

Office of Technical Services

Synthesis of Ethylene Chlorohydrin. II.
Temperature Coefficient of the Rate of the Gomberg
Reaction, by E. A. Shilov, N. P. Kanyayev.

RUSSIAN, per, Zhur Obshch Khim, Vol XVI, 1946,
pp 1871-1872.

SLA-17213
DSIR LLU M. 1386

Sci - Chem

170,762

Oct 61

Theory of Nitration of Saturated Hydrocarbons and
Their Derivatives, I. General Conclusions of the
Study of the Primary Elementary Stage of the Reaction,
by A. I. Titov,

RUSSIAN, per, Zhur Obshechi Khim, Vol XVI, No 11,
1946, pp 1896-1906.

ATS RJ-2092

Sci - Chem

May 60

115,387

Sodium Hexametaphosphate as an Inhibitor of
Corrosion of Iron in Salt Solutions, by E. I.
Gurovich, I. V. Krotov.
RUSSIAN, per, Zh. Obshch. Khim, Vol 16, No 12,
1946, pp 1951-1960.
NLL 5828.4F (11865)

Sci - Chem
Sept. 67

340,362

Mel'nikov, N. N.
INVESTIGATIONS IN THE FIELD OF ORGANIC
MERCURY COMPOUNDS. VI. CONCERNING
SYNTHESIS OF DIALKYL-MERCURY. [1963] 9p.
12 refs.

Order from OTS or SLA \$1.10

63-14292

Trans. of Zhurnal Obshchei Khimii (USSR) 1946,
v. 16, no. 12, p. 2065-2071.

DESCRIPTORS: *Metalorganic compounds, *Mercury
compounds, *Alkyl radicals, Synthesis (Chemistry),
Bromides, Sodium compounds, Mercury alloys.

It was shown that completely metalorganic compounds
of mercury are obtained in good yield by reaction of
alkyl bromide with sodium amalgam. It was estab-
lished that the content of sodium in the amalgam em-
ployed for the synthesis of dialkylmercury from alkyl
(Chemistry--Organic, TT, v. 10, no. 5) (over)

63-14292

I. Mel'nikov, N. N.
II. Title: Concerning . . .

Office of Technical Services

Investigation of the Sulphonation Reaction.
V. Conditions for Irreversibility of the
Sulphonation Reaction, by A. A. Spryskov.
UNCL

RUSSIAN, per, Zhur Obshch Khim, Vol XVI,
1946, pp 2126-2131.

Sci - Chem
Aug 59

DSIR LIU (loan) M.412

SLA 59-5,482

94, 872

Catalytic Oxidation of Benzene in the Gas Phase,
by V. V. Pigulevskii and E. Ya. Yarnetskaya.
RUSSIAN, per. Zhurnal Obshchego Khimii, No 5,
1935, pp 1620-1628.
NLL RTS 3567

Sci-Chem
Nov 67

345,327

The Movement of Solution Near a Dropping Mercury Electrode. III. Movement in Concentrated Solutions of Foreign Electrolytes and the Formation of False Waves on the Polarographic Curve, by T. A. Kryukova and B. N. Kabanov.

RUSSIAN, per, Zhurnal Obshchei Khimii, Vol 15, 1945, pp 294-302.

NLL RTS 3713

Sci-Chem

Nov 67

345,339

Determination of Active Hydrogen With Grignard's
Reagent in an Atmosphere of Carbon Dioxide, Part IV,
by A. P. Terent'ev.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol XVII, 1947,
pp 100-104.

AEC Tr 1575

Scientific - Chemistry

May 53 CTS

2102

The Extraction of Iron Chloride From Hydrochloric Acid
Solutions by Means of Organic Solvents, by V. I. Kuz-
netsov.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol XVII, No 2, USSR,
1947, pp 175-180.

Sci Tr Cont RT 470
AEC Tr 1283

Scientific - Chemistry

Jun 52 CTS

DEX

Preparation of Sulfur Monofluoride and Its
Properties, by L. M. Dubnikov, N. I. ZORIN.

RUSSIAN, no per, Zhur Obshch Khim, Vol XVII, No 2,
1947, pp 185 - 192.

AEC Tr 1087

OTS 63-14408

Sci - Chem

Dec 51 OTS

BS

Zhur Obsh Khim Vol 6 17 No 2 193-7 1947

Polotskiy, I. G. and Filippov, Ts S.

The mechanism of the depolarizing action of ultrasonic waves.

Avail at ENL AECtr 432 29 June 5,

Antraquinone Series. Communication II. 1,4
Anthraquinonechlorosulfonic Acid, by V. V.
Kozlov, 4 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XVII,
No 2, 1947, pp 299-301.

Sci Tr Center
RT-3811

37,874

Sci - Chemistry

Aug 1956

Investigation of the Alkaloids of Trachelanthus
Korolkovi. IV. The Structure of Trachelanthamine,
by G. P. Men'shikov, 7 6 pp.

RUSSIAN, 1 mo per, Zhur Obshch Khim, Vol XVII,
No 2, 1947, pp 343-346.

Sci Tr Center RT-2814

Scientific - Chemistry
Dec 55 CTS/DEX

29,465

ZHUR OBSHCH KHIM VOL XVII, No 3

Mar 1947

4 pp

"Ascorbic Acid. Its Preparation and Properties: III,
The Acetonization of Sorbose"

Ya. M. Slobodin

Available at Brookhaven
See Guide to Russ Sci Per Lit,
Vol, 1, No 7, P. 53

15T74

Blockade of High Molecular Iron Compounds by
Means of Phosphates and other Complex Forming
Agents. XI. The Role of Phosphates in Oxidation
Process, by A. M. Malkov, 13 p.

RUSSIAN, per, Zhur Obshchey Khimii, 1947,
Vol XVII, No 3, pp 436-442.

SLA 59-15924

Sci
Dec 59
Vol 2, No 6

103,795

Babko, A. K.
COPPER SALICYLATE COMPLEXES. [1961] 10p.
(5 figs. omitted) 9 refs.
Order from OTS or SLA \$1.10 61-16159

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1947,
v. 17 [no. 3] p. 443-449.

DESCRIPTORS: *Salicylates, *Copper compounds,
*Complex compounds.

(Chemistry--Physical, TT, v. 6, no. 7)

61-16159

I. Babko, A. K.

61-16159

Office of Technical Services

1
Molecular Compounds of ~~XXX~~ Mollitic Trianhydride,
by I. S. Mustafin.

RUSSIAN, no per, Zhur Obshch Khim, Vol XVII,
1947, pp 560-564.

Assoc Tech Sv RJ-253
\$8.00

Scientific - Chemistry
CTB 73/Oct 1955

27,701

The Acid-Base Properties of ~~Acetone~~ Acetonitrile. II.
Interaction of Acetonitrile With Bases, by
M. Usanovich, V. Dulova, 3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XVII, No 4,
1947, pp 669-672.

CTS TT-63-20750 (9pp)
Sci Trans Center RT-435

10,919

Scientific - Chemistry
CTS/DEX

Some Considerations on the Herz Reaction, by
M. E. Bezrubets, 6 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XVII, No 4,
1947, pp 681-685.

Sci Tr Center
RT-3992

39,131

Sci - Chemistry
Sep 56 CTB/dex

Question of the Electrochemical Theory of Solution
of Metals in Acids (II), by Ya. V. Durdin.

Full translation.

RUSSIAN, no per, Zhur Obshch Khim, Vol XVII, No 5,
1947, pp 844-861.

Def Sci Info Sv,
DRB Canada, T.66.R.

Scientific - Chemistry

Jun 53 CES

2691

Agency: Picatinny Arsenal
P.O.No. 72-146-c

R-15180-D
12 June .972

Title: Physico-Chemical Analysis in the System
Acetic Acid-Nitric Acid: Fusibility, Viscosity
and Density of the System.

Author: S. P. Miskidzh'yan, N. A. Trifonov

Source: Zhurnal Obshchey Khimii, Vol. 17, #6, 1947
PP: 1033-1038

PP:

Language: Russian

Instructions: Please translate, type single space.
Paste-up

Yanat'eva, O. K.
SOLUBILITY, VISCOSITY, AND SPECIFIC GRAVITIES IN QUATERNARY AQUEOUS SYSTEMS OF ALKALI AND ALKALINE-EARTH METAL CHLORIDES (Rastvorimost', Viskozost' i Udel'nye Vesa v Chetvernykh Vodnykh Sistemakh iz Khloridov Shchelochnykh i Shchelochno-Zemel'nykh Metallov). [1963] [13]p. (foreign text included) 4 refs.
Order from OTS or SLA \$1.60 63-16991

Trans. of Zhurnal Obshchei Khimii (USSR) 1947, v. 17, no. 6, p. 1043-1046.

DESCRIPTORS: *Alkali metal compounds, *Alkaline earth compounds, *Chlorides, Solubility, Viscosity, Density, Solutions, Welding, Fluxes (Fusion).

Solubility, viscosity and specific gravities in the systems: NaCl — KCl — LiCl — H₂O, NaCl — KCl — (Chemistry--Physical, TT, v. 10, no. 9) (over)

63-16991

I. Yanat'eva, O. K.

Office of Technical Services

Study of Alloxan and of Certain of Its
Derivatives as Analytical Reagents, by Leonid
Kul'berg, 22 pp.

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